

Supplemental Material, Table 1: Effect estimates for an increase of 10µg/m³ from the individual panel studies analysed

Study	Urban/ Rural	LRS / Asthma symptoms				Cough episodes				PEF			
		PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	PM ₁₀	NO ₂	Beta	standard error	beta	standard error
(Pope, III and Dockery 1992)	rural	0.066	0.020			0.070	0.020			-0.360	0.117		
(Roemer et al. 1993)	rural	0.410	0.140			0.710	0.450			-0.410	0.150		
(Romieu et al. 1996)	urban	0.029	0.023			0.047	0.010			-1.550	0.485		
(Gielen et al. 1997)	urban	0.087	0.038			0.036	0.024			a			
(Peters et al. 1997)	urban					0.019	0.006			-0.346	0.195		
(Romieu et al. 1997)	urban	0.000	0.020			0.010	0.012			-0.685	0.484		
(Delfino et al. 1998)	rural	0.219	0.105							b			
(Segala et al. 1998)	urban	0.130	0.081	0.169	0.069	0.110	0.040	0.148	0.049	-2.090	1.080	-2.750	1.500
(Vedal et al. 1998)	rural					0.077	0.036			-0.550	0.250		
(Tiittanen et al. 1999)	urban					0.045	0.017			-0.326	0.171		
(van der Zee et al. 1999)	urban	0.042	0.019	0.028	0.025	0.005	0.008	0.007	0.012	a			
(van der Zee et al. 1999)	rural	0.048	0.020	0.093	0.034	0.009	0.005	0.007	0.010	a			
(Jalaludin et al. 2000)	urban									0.045	0.125	0.194	0.185
(Yu et al. 2000)	urban	0.104	0.039							b			
(Ostro et al. 2001)	urban	0.066	0.030	0.023	0.009	0.130	0.034	0.022	0.010	b			
(Delfino et al. 2002)	rural	0.031	0.081	0.095	0.081					b			
(Just et al. 2002)	urban	0.086	0.419	0.157	0.120	0.120	0.128	0.198	0.077	a			
(Mortimer et al. 2002)	urban	0.115	0.059	0.104	0.051					a			
(Delfino et al. 2003)	urban	0.100	0.037	1.144	1.097					-0.992	0.910		
(Aekplakorn et al. 2003)	rural									-0.121	0.028		
(Peacock et al. 2003)	-									0.400	0.204	0.585	0.380
(Jalaludin et al. 2004)	urban	0.038	0.028	0.067	0.079	0.030	0.020	0.049	0.024	b			
(Schildcrout et al. 2006)	urban	0.008	0.010	0.023	0.007					b			
PEACE-studies													
(Baldini G et al. 1998)	urban	0.039	0.037	0.128	0.071	-0.039	0.041	0.050	0.063	0.260	0.260	1.510	0.510
(Baldini G et al. 1998)	rural	-0.016	0.017	-0.146	0.074	-0.023	0.011	0.063	0.069	0.700	0.340	1.670	0.570
(Beyer U et al. 1998)	urban	0.341	0.167	0.047	0.094	0.175	0.080	0.105	0.083	-0.500	0.260	0.310	0.310
(Beyer U et al. 1998)	rural	-0.062	0.122	-0.319	0.137	-0.060	0.074	-0.159	0.075	0.180	0.250	0.360	0.390
(Clench-Aas J et al. 1998)	urban	0.201	0.227	0.079	0.123	-0.150	0.090	-0.100	0.050	1.380	0.920	0.630	0.470
(Clench-Aas J et al. 1998)	rural	0.149	0.596	0.076	0.249	-0.205	0.421	-0.051	0.067	-1.040	1.910	-1.430	0.710
(Englert N et al. 1998)	urban	-0.137	0.094	-0.304	0.125	-0.108	0.407	-0.131	0.100	0.730	0.370	1.810	0.910
(Englert N et al. 1998)	rural	0.097	0.102	0.451	0.401	0.070	0.080	0.070	0.090	0.540	0.360	3.060	1.180
(Forsberg et al. 1998)	rural	-0.656	0.271	-0.380	0.190	-0.270	0.140	0.020	0.080	1.020	0.600	0.530	0.330
(Forsberg et al. 1998)	urban	-0.336	0.212	0.272	0.259	-0.284	0.164	0.236	0.251	2.150	1.040	1.060	0.750
(Haluszka J et al. 1998)	urban	-0.078	0.048			-0.050	0.030			0.320	0.370		
(Haluszka J et al. 1998)	rural	-0.037	0.028			-0.017	0.019			0.660	0.230		
(Kalandidi A et al. 1998)	rural	0.147	0.089	-0.185	0.104	0.050	0.020	-0.150	0.070	-0.380	0.200	-0.930	0.380
(Kalandidi A et al. 1998)	urban	-0.123	0.064	0.096	0.152	-0.115	0.046	-0.101	0.111	0.230	0.170	-2.130	0.570
(Kotesovec F et al. 1998)	urban	-0.120	0.049	-0.322	0.146	0.040	0.050	0.100	0.100	0.180	0.220	0.440	0.540
(Kotesovec F et al. 1998)	rural	-0.127	0.145	-0.616	0.464	-0.114	0.082	0.220	0.172	-0.630	0.330	-3.690	1.320
(Nielsen et al. 1998)	urban	-0.462	0.324	0.318	0.482	-0.093	0.044	-0.051	0.069	-0.630	0.590	2.150	1.040
(Nielsen et al. 1998)	rural	0.226	0.167	1.004	0.674	-0.070	0.120	-0.170	0.060	-2.010	1.200	1.390	2.690
(Niepsuj G et al. 1998)	urban	0.044	0.076	-0.034	0.088	-0.073	0.037	-0.082	0.031	0.180	0.230	-0.200	0.120
(Niepsuj G et al. 1998)	rural	0.091	0.129	0.200	0.152	0.035	0.037	-0.076	0.037	-0.270	0.110	0.500	0.330
(Rudnai P et al. 1998)	urban	-0.061	0.085	-0.377	0.282	0.050	0.047	0.160	0.158	-0.690	0.190	-2.340	0.720
(Rudnai P et al. 1998)	rural	-0.086	0.084	-0.258	0.207	-0.070	0.040	-0.150	0.070	-0.250	0.220	-0.740	0.530
(Timonen et al. 1998)	urban	0.127	0.053	0.066	0.040	-0.142	0.074	-0.124	0.058	27.070	9.900	39.470	19.320
(Timonen et al. 1998)	rural	-0.115	0.094	0.068	0.347	-0.076	0.124	-0.211	0.132	33.940	22.770	55.960	25.980
(Vondra V et al. 1998)	urban	0.043	0.034	0.072	0.063	0.050	0.077	0.062	0.132	0.530	0.160	0.940	0.290
(Vondra V et al. 1998)	rural	-0.117	0.109	-0.578	0.350	-0.100	0.090	0.420	0.300	-0.250	0.220	-4.240	3.890
(van der Zee et al. 1998)	urban									-0.790	0.350	0.980	0.340
(van der Zee et al. 1998)	rural									0.280	0.430	-0.520	0.580

Abbreviations: LRS: in this table equivalent to asthma symptoms; PEF: Peak expiratory flow; beta: regression coefficient beta from logistic regression for LRS and cough and from linear regression for PEF in L/min.

a: the PEF of this study could not be converted into a change in L/min because PEF was analysed as % change or prevalence of a given decrease in PEF; b: no PEF-measurements were performed/reported

Supplemental Material, Table 2: Effect estimates for an increase of 10 $\mu\text{g}/\text{m}^3$ from the individual panel studies analysed (lag0-1)

Study	Urban/ Rural	LRS / Asthma symptoms				Cough episodes				PEF			
		PM ₁₀	NO ₂		PM ₁₀	NO ₂		PM ₁₀	NO ₂		PM ₁₀	NO ₂	
		beta	standard error	beta	standard error	beta	standard error	beta	standard error	beta	standard error	beta	standard error
(Pope, III and Dockery 1992)	rural	0.047	0.017			0.051	0.014			-0.175	0.094		
(Roemer et al. 1993)	rural	0.033	0.010			0.005	0.018			-0.140	0.200		
(Romieu et al. 1996)	urban	0.029	0.023			0.038	0.009			-0.590	0.304		
(Gielen et al. 1997)	urban	0.004	0.039			0.035	0.024						
(Peters et al. 1997)	urban					0.002	0.005			-0.184	0.105		
(Romieu et al. 1997)	urban	-0.010	0.024			0.000	0.006			-0.310	0.422		
(Delfino et al. 1998)	rural	0.154	0.100										
(Segala et al. 1998)	urban	0.052	0.080	0.082	0.090								
(Tiittanen et al. 1999)	urban					-0.013	0.019			-0.106	0.174		
(van der Zee et al. 1999)	urban	0.039	0.013	-0.009	0.009	-0.006	0.008	-0.007	0.005				
(van der Zee et al. 1999)	rural	0.004	0.009	0.004	0.007	0.009	0.005	0.001	0.004				
(Jalaludin et al. 2000)	urban									0.045	0.125	0.194	0.185
(Yu et al. 2000)	urban	0.104	0.039										
(Delfino et al. 2002)	rural	0.031	0.081	0.095	0.081								
(Just et al. 2002)	urban	0.058	0.280	0.148	0.101	0.095	0.113	0.199	0.077				
(Mortimer et al. 2002)	urban	0.131	0.053	0.106	0.051								
(Delfino et al. 2003)	urban	0.018	0.070	0.952	0.557					-0.992	0.907		
(Aekplakorn et al. 2003)	rural									-0.121	0.028		
(Peacock et al. 2003)	-									0.400	0.179	0.160	0.190
(Jalaludin et al. 2004)	urban	0.008	0.015	-0.007	0.020	0.000	0.013	-0.013	0.018				
(Schildcrout et al. 2006)	urban	0.004	0.009	0.010	0.009								
PEACE-studies													
(Baldini G et al. 1998)	urban	-0.009	0.015	-0.026	0.011	-0.025	0.015	0.010	0.029	-0.005	0.019	0.049	0.031
(Baldini G et al. 1998)	rural	-0.017	0.016	-0.006	0.038	-0.012	0.013	0.015	0.026	0.020	0.018	0.062	0.038
(Beyer U et al. 1998)	urban	0.152	0.082	-0.044	0.107	-0.002	0.022	-0.070	0.050	-0.011	0.014	-0.021	0.017
(Beyer U et al. 1998)	rural	-0.062	0.121	-0.319	0.137	-0.034	0.057	-0.123	0.073	-0.012	0.016	0.000	0.021
(Clench-Aas J et al. 1998)	urban	0.045	0.087	0.009	0.059	-0.036	0.088	-0.073	0.055	-0.018	0.044	-0.007	0.026
(Clench-Aas J et al. 1998)	rural	-0.076	0.193	-0.024	0.090	0.162	0.132	-0.011	0.067	-0.008	0.069	-0.005	0.031
(Englert N et al. 1998)	urban	-0.102	0.066	-0.182	0.128	-0.065	0.055	-0.104	0.103	0.002	0.019	0.013	0.038
(Englert N et al. 1998)	rural	0.079	0.065	0.160	0.137	0.033	0.050	0.001	0.099	0.014	0.028	0.073	0.044
(Forsberg et al. 1998)	urban	-0.270	0.136	-0.069	0.069	-0.115	0.121	0.011	0.059	0.052	0.042	0.018	0.023
(Forsberg et al. 1998)	rural	-0.119	0.187	-0.006	0.090	-0.284	0.163	-0.092	0.103	-0.045	0.050	0.002	0.027
(Haluszka J et al. 1998)	urban	0.024	0.044			-0.020	0.024			-0.009	0.013	-	-
(Haluszka J et al. 1998)	rural	0.001	0.026			-0.017	0.017			-0.017	0.010	-	-
(Kalandidi A et al. 1998)	urban	-0.004	0.027	-0.123	0.091	0.008	0.023	-0.151	0.070	-0.007	0.008	-0.002	0.024
(Kalandidi A et al. 1998)	rural	0.037	0.071	0.041	0.141	-0.042	0.040	-0.101	0.111	-0.038	0.020	-0.052	0.042
(Kotesovec F et al. 1998)	urban	0.025	0.043	-0.277	0.163	0.021	0.022	-0.028	0.100	0.008	0.009	0.021	0.029
(Kotesovec F et al. 1998)	rural	-0.059	0.106	-0.167	0.304	0.015	0.042	0.213	0.177	-0.010	0.015	-0.008	0.071
(Nielsen et al. 1998)	urban	0.011	0.129	0.130	0.159	0.008	0.074	-0.022	0.087	-0.029	0.031	-0.018	0.038
(Nielsen et al. 1998)	rural	0.096	0.168	-0.143	0.195	0.035	0.132	-0.337	0.198	-0.037	0.055	-0.072	0.090
(Niepsuj G et al. 1998)	urban	-0.009	0.041	-0.028	0.037	-0.070	0.037	-0.054	0.032	-0.011	0.014	-0.005	0.011
(Niepsuj G et al. 1998)	rural	-0.014	0.032	-0.021	0.046	0.001	0.009	-0.076	0.037	-0.027	0.011	0.001	0.009
(Rudnai P et al. 1998)	urban	-0.003	0.049	-0.015	0.133	0.016	0.026	-0.007	0.074	-0.022	0.012	-0.085	0.032
(Rudnai P et al. 1998)	rural	-0.010	0.055	-0.042	0.104	-0.024	0.038	-0.123	0.072	0.006	0.009	0.016	0.019
(Timonen et al. 1998)	urban	-0.094	0.135	0.068	0.084	-0.142	0.074	-0.124	0.059	0.315	1.013	0.368	1.793
(Timonen et al. 1998)	rural	-0.448	0.230	-0.115	0.238	0.011	0.114	-0.049	0.240	-0.717	2.348	-0.630	3.446
(Vondra V et al. 1998)	urban	0.028	0.037	0.072	0.063	0.029	0.036	-0.011	0.063	0.005	0.013	0.002	0.023
(Vondra V et al. 1998)	rural	0.033	0.036	-0.080	0.335	0.000	0.028	-0.106	0.281	-0.003	0.011	0.085	0.094
(van der Zee et al. 1998)	urban									-0.010	0.026	0.046	0.039
(van der Zee et al. 1998)	rural									-0.008	0.011	-0.021	0.023

Abbreviations: lag0-1: lag1, if not available lag0 or lag0-1 is reported; LRS: in this table equivalent to asthma symptoms; PEF: Peak expiratory flow; beta: regression coefficient beta from logistic regression for LRS and cough and from linear regression for PEF in L/min.

Supplemental Material, Table 3: Association of PM₁₀ and NO₂ exposure (lag 0-1) with episodes of asthma symptoms and of cough, and PEF in children symptomatic or diagnosed for asthma.

	PM ₁₀					NO ₂				
	N	OR _F / beta _F (95%CI)	OR _R / beta _R (95%CI)	p _{het} I ²	p-value for Egger's (Begg's) bias test	n	OR _F / beta _F (95%CI)	OR _R / beta _R (95%CI)	p _{het} I ²	p-value for Egger's (Begg's) bias test
Asthma symptoms										
All studies	42	1.014 (1.007;1.021)	1.015 (1.004;1.026)	0.075 (25%)	0.829 (0.745)	33	0.998 (0.990;1.006)	0.997 (0.984;1.010)	0.162 (20%)	0.833 (0.609)
Without PEACE	16	1.020 (1.011;1.028)	1.025 (1.010;1.039)	0.033 (43%)	0.096 (0.300)	9	1.004 (0.995;1.013)	1.006 (0.990;1.023)	0.084 (43%)	0.015 (0.118)
"trim and fill" estimate		a				13	1.002 (0.993;1.011)	1.002 (0.982;1.022)	0.017 (51%)	
Cough										
All studies	34	1.005 (1.000;1.010)	1.003 (0.994;1.012)	0.006 (42%)	0.262 (0.953)	28	0.996 (0.990;1.001)	0.984 (0.970;0.999)	0.042 (34%)	0.016 (0.828)
Without PEACE	9	1.009 (1.003;1.015)	1.014 (1.001;1.027)	0.001 (70%)	0.314 (0.602)	4	0.998 (0.992;1.003)	0.998 (0.984;1.012)	0.028 (67%)	0.507 (0.734)
"trim and fill" estimate		a					a			
PEF										
All studies	38	-0.008 (-0.014;-0.003)	-0.010 (-0.018;-0.002)	0.027 (33%)	0.074 (0.076)	28	0.000 (-0.009;0.009)	0.000 (-0.009;0.009)	0.511 (0%)	0.283 (0.342)
Without PEACE	10	-0.116 (-0.164;-0.068)	-0.102 (-0.207;0.003)	0.107 (38%)	0.925 (0.474)	2	0.177 (-0.082;0.437)	0.177 (-0.082;0.437)	0.897 (0%)	- (1.000)
"trim and fill" estimate		a								

Abbreviations: lag0-1: lag1, if not available lag0 or lag0-1 was analysed; PEF: Peak expiratory flow; n: Number of studies included in the meta-analysis; OR_F / beta_F: Combined estimate of the Odds ratio (regression coefficient beta for PEF in L/min) from the fixed effects model for an increment of 10 µg/m³ of pollutant; OR_R / beta_R: Combined estimate of the Odds ratio (regression coefficient beta for PEF in L/min) from the random effects model for an increment of 10 µg/m³ of pollutant; 95%CI: 95% confidence interval; p_{het}: p-value for test of heterogeneity based on Cochrane's Q; I²: I² of Higgins and Thompson reflecting the proportion of total variation in the estimate that is due to heterogeneity between studies; a: the "metatrim" command in Stata did not perform any trimming ("No trimming performed, data unchanged")

Supplemental Material, Table 4: Strata-specific combined estimates of the association of PM₁₀ and NO₂ exposure (lag 0-1) with episodes of wheezing in children symptomatic or diagnosed for asthma.

	PM ₁₀			NO ₂								
	All studies		PEACE studies excluded	All studies		PEACE studies excluded						
	n	OR _R (95% CI)	p _{Strata} p _{het} (I^2)	n	OR _R (95%CI)	p _{Strata} p _{het} (I^2)e	n	OR _R (95%CI)	p _{Strata} p _{het} (I^2)	n	OR _R (95%CI)	p _{Strata} p _{het} (I^2)
Continent			0.148			0.681			0.161			0.326
Europe	32	1.010 (0.999;1.022)	0.265 (13%)	6	1.023 (1.006;1.041)	0.192 (33%)	28	0.992 (0.981;1.003)	0.425 (3%)	4	1.000 (0.983;1.017)	0.225 (31%)
Other	10	1.029 (1.006;1.053)	0.027 (52%)	10	1.029 (1.006;1.053)	0.027 (52%)	5	1.023 (0.982;1.065)	0.086 (51%)	5	1.023 (0.982;1.065)	0.086 (51%)
Season			0.175			0.249			0.009			0.014
summer only	4	1.077 (0.987;1.176)	0.190 (37%)	4	1.077 (0.987;1.176)	0.190 (37%)	2	1.122 (1.026;1.227)	0.708 (0%)	2	1.122 (1.026;1.227)	0.708 (0%)
Other	38	1.013 (1.003;1.024)	0.112 (22%)	12	1.022 (1.009;1.036)	0.045 (45%)	31	0.995 (0.985;1.006)	0.321 (9%)	7	1.002 (0.991;1.014)	0.225 (23%)
Population			0.289			0.854			0.035			0.053
asthmatics	11	1.029 (1.001;1.057)	0.124 (34%)	11	1.029 (1.001;1.057)	0.124 (34%)	6	1.073 (0.999;1.152)	0.088 (48%)	6	1.073 (0.999;1.152)	0.088 (48%)
symptomatics	31	1.012 (1.000;1.025)	0.116 (24%)	5	1.025 (1.008;1.043)	0.037 (61%)	27	0.993 (0.984;1.002)	0.556 (0%)	3	0.999 (0.988;1.009)	0.498 (0%)
Duration			0.603			0.714			0.916			0.522
≤ 2months	14	1.020 (0.996;1.044)	0.191 (24%)	6	1.031 (0.996;1.067)	0.041 (57%)	10	0.993 (0.922;1.068)	0.117 (36%)	2	1.041 (0.934;1.160)	0.040 (76%)
> 2 months	28	1.013 (1.001;1.026)	0.087 (28%)	10	1.024 (1.009;1.039)	0.092 (40%)	23	0.997 (0.985;1.008)	0.268 (14%)	7	1.004 (0.989;1.020)	0.140 (38%)
PM₁₀ level			0.710			0.562			0.614			0.364
< 40 µg/m ³	19	1.019 (0.997;1.042)	0.156 (25%)	9	1.024 (1.003;1.047)	0.120 (37%)	16	0.999 (0.989;1.009)	0.470 (0%)	6	1.000 (0.986;1.013)	0.323 (14%)
≥ 40 µg/m ³	22	1.014 (1.000;1.029)	0.108 (28%)	6	1.034 (1.012;1.056)	0.196 (32%)	16	0.990 (0.957;1.024)	0.203 (22%)	2	1.416 (0.670;2.992)	0.130 (56%)
NO₂ level			0.071			0.012			0.645			0.249
< 40 µg/m ³	22	1.002 (0.989;1.014)	0.531 (0%)	5	1.005 (0.991;1.020)	0.995(0%)	11	0.995 (0.968;1.022)	0.074 (41%)	4	1.004 (0.975;1.034)	0.219 (32%)
≥ 40 µg/m ³	14	1.020 (1.005;1.035)	0.234 (20%)	7	1.033 (1.016;1.050)	0.332 (13%)	21	1.002 (0.989;1.014)	0.623 (0%)	4	1.060 (0.972;1.156)	0.042 (63%)
Urban/Rural			1.000			0.751			0.620			0.871
Rural	18	1.015 (0.998;1.032)	0.152 (26%)	5	1.028 (1.004;1.053)	0.054 (57%)	14	1.003 (0.989;1.016)	0.690 (0%)	2	1.014 (0.960;1.071)	0.264 (20%)
Urban	24	1.015 (1.000;1.030)	0.107 (27%)	11	1.024 (1.004;1.044)	0.075 (41%)	19	0.997 (0.977;1.017)	0.048 (38%)	7	1.009 (0.984;1.035)	0.049 (53%)

Abbreviations: lag0-1: lag1, if not available lag0 or lag0-1 was analysed; n: Number of studies included in the meta-analysis; OR_R : Combined estimate of the Odds ratio from the random effects model for an increment of 10 µg/m³ of pollutant; 95%CI: 95% confidence interval; p_{Strata}: p-value for differences between strata; p_{het}: p-value for test of heterogeneity based on Cochrane's Q; I²: I² of Higgins and Thompson reflecting the proportion of total variation in the estimate that is due to heterogeneity between studies;

Supplemental Material, Table 5: Strata-specific combined estimates of the association of PM₁₀ exposure (lag 0-1) with change in peak expiratory flow (PEF; in L/min) and with cough episodes in children symptomatic or diagnosed for asthma.

PEF									Cough									
	All studies			PEACE studies excluded			All studies			PEACE studies excluded								
	n	beta _R (95% CI)	p _{Strata} p _{het} (I^2)	n	beta _R (95% CI)	p-value	n	OR _R (95% CI)	p _{Strata} p _{het} (I^2)	n	OR _R (95% CI)	p _{Strata} p _{het} (I^2)						
Continent			0.004			0.451			<0.0001			<0.0001						
Europe	32	-0.007 (-0.012;-0.001)	0.522 (0%)	4	-0.021 (-0.281;0.240)	0.041 (64%)	32	1.000 (0.995;1.005)	0.452 (1%)	7	1.004 (0.997;1.010)	0.443 (0%)						
Other	6	-0.126 (-0.207;-0.044)	0.348 (11%)	6	-0.126 (-0.207;-0.044)	0.348 (11%)	2	1.043 (1.027;1.059)	0.480 (0%)	2	1.043 (1.027;1.059)	0.480 (0%)						
Season			-						0.132			0.289						
summer only	0	-	-	0	-	-	2	1.039 (0.992;1.088)	0.604 (0%)	2	1.039 (0.992;1.088)	0.604 (0%)						
Other	38	-0.010 (-0.018;-0.002)	0.027 (33%)	10	-0.102 (-0.207;0.003)	0.107 (38%)	32	1.002 (0.993;1.011)	0.005 (43%)	7	1.012 (0.998;1.026)	<0.001 (76%)						
Population			<0.001			0.240			0.095			0.385						
asthmatics	5	-0.130 (-0.183;-0.078)	0.441 (0%)	5	-0.130 (-0.183;-0.078)	0.441 (0%)	4	1.024 (0.995;1.054)	0.004 (77%)	4	1.024 (0.995;1.054)	0.004 (77%)						
symptomatics	33	-0.007 (-0.012;-0.001)	0.545 (0%)	5	-0.010 (-0.203;0.183)	0.061 (56%)	30	0.998 (0.989;1.008)	0.075 (29%)	5	1.009 (0.991;1.027)	0.009 (70%)						
Duration			0.320			0.426			0.094			0.476						
≤ 2months	12	-0.019 (-0.039;0.002)	0.003 (61%)	4	-0.125 (-0.179;-0.072)	0.463 (0%)	11	1.016 (0.999;1.034)	0.258 (19%)	3	1.022 (0.988;1.057)	0.046 (67%)						
> 2 months	26	-0.008 (-0.015;-0.001)	0.347 (8%)	6	-0.047 (-0.231;0.138)	0.045 (56%)	23	0.999 (0.990;1.008)	0.026 (40%)	6	1.009 (0.996;1.022)	0.018 (63%)						
PM₁₀ level			1.000			0.060			1.000			0.200						
< 40 µg/m ³	12	-0.010 (-0.028;0.008)	0.622 (0%)	2	0.200 (-0.145;0.545)	0.103 (62%)	14	1.003 (0.990;1.017)	0.308 (13%)	4	1.005 (0.991;1.020)	0.187 (37%)						
≥ 40 µg/m ³	25	-0.010 (-0.019;-0.001)	0.005 (48%)	7	-0.134 (-0.184;-0.084)	0.683 (0%)	19	1.003 (0.991;1.015)	0.001 (56%)	4	1.024 (0.998;1.051)	<0.001 (84%)						
NO₂ level			1.000			0.108			0.848			0.912						
< 40 µg/m ³	21	-0.006 (-0.014;0.002)	0.495 (0%)	3	0.155 (-0.215;0.524)	0.102 (53%)	18	1.002 (0.990;1.014)	0.381 (6%)	2	1.012 (0.995;1.029)	0.274 (16%)						
≥ 40 µg/m ³	10	-0.006 (-0.017;0.004)	0.264 (19%)	2	-0.307 (-0.733;0.119)	0.216 (35%)	11	1.004 (0.987;1.021)	0.006 (60%)	4	1.014 (0.984;1.046)	0.003 (79%)						
Urban/Rural			0.192			0.905			0.754			0.515						
Rural	17	-0.015 (-0.028;-0.002)	0.010 (50%)	3	-0.126 (-0.178;-0.074)	0.858 (0%)	15	1.004 (0.991;1.018)	0.084 (36%)	3	1.021 (0.993;1.049)	0.020 (74%)						
Urban	20	-0.005 (-0.013;0.002)	0.603 (0%)	6	-0.136 (-0.291;0.020)	0.344 (11%)	19	1.001 (0.988;1.014)	0.009 (49%)	6	1.010 (0.992;1.029)	0.003 (72%)						

Abbreviations: lag0-1: lag1, if not available lag0 or lag0-1 was analysed; PEF: Peak expiratory flow; n: Number of studies included in the meta-analysis; OR_R / beta_R: Combined estimate of the Odds ratio (regression coefficient beta for PEF in L/min) from the random effects model for an increment of 10 µg/m³ of pollutant; 95%CI: 95% confidence interval; p_{Strata}: p-value for differences between strata; p_{het}: p-value for test of heterogeneity based on Cochrane's Q; I²: I² of Higgins and Thompson reflecting the proportion of total variation in the estimate that is due to heterogeneity between studies;

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